

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P238136

Luminaire Tested: **PRS630D010-S6M24-61SNDMB**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238136
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-13)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS630D010-S6M24-61SNDMB
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

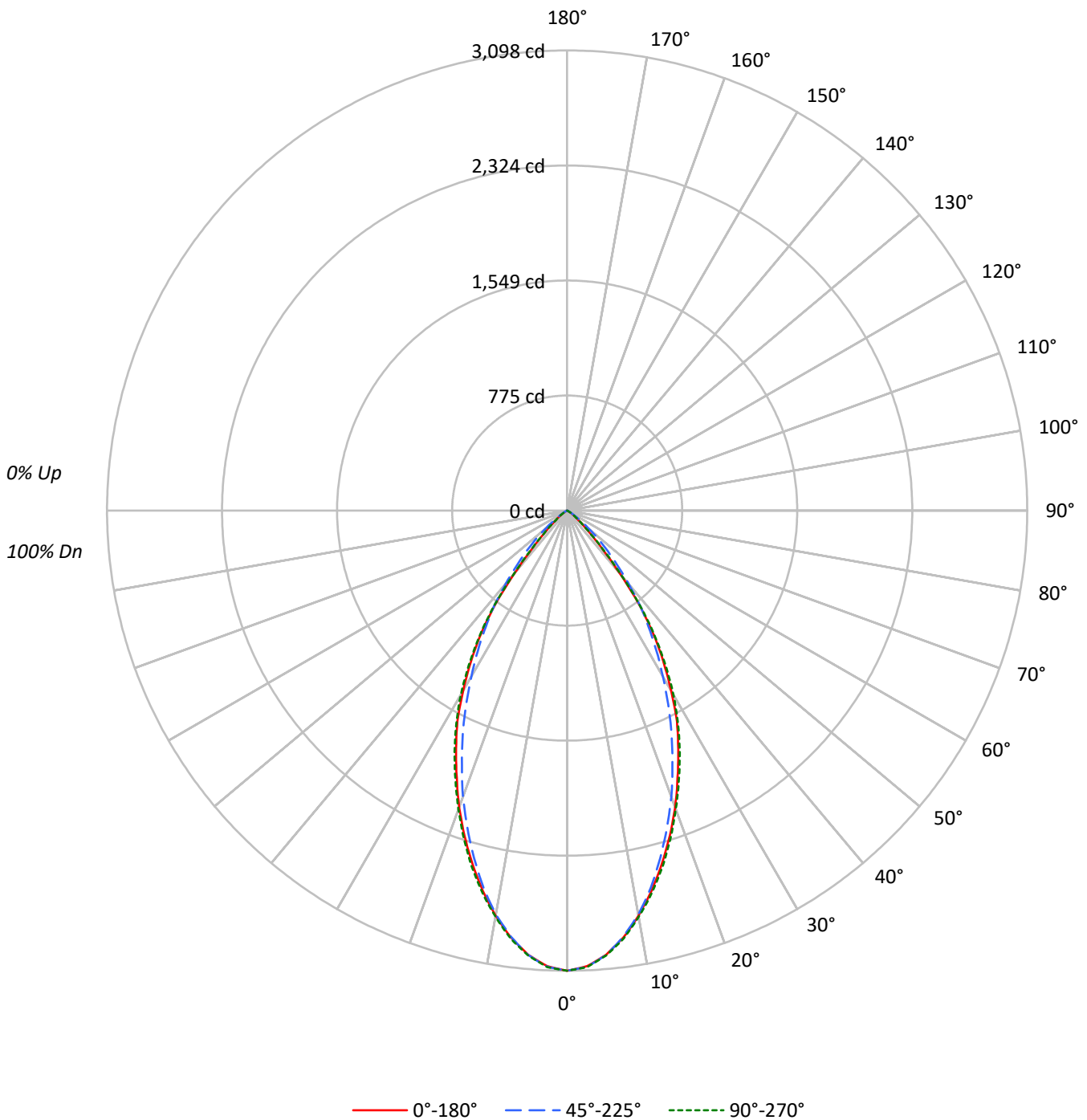
Lumens per Lamp: N/A
Luminaire Lumens: 2664.4 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.85
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	113	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93					93			
2	108	103	98	95	105	101	97	94	98	94	92	95	92	90	92	90	88	86					86			
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81	80					80			
4	96	89	83	79	95	87	82	78	85	81	77	83	79	76	81	78	75	74					74			
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	68					68			
6	87	77	71	67	85	77	71	66	75	70	66	74	69	66	72	68	65	64					64			
7	82	72	66	62	81	72	66	62	70	65	61	69	65	61	68	64	61	59					59			
8	78	68	62	58	77	67	62	58	66	61	57	65	61	57	64	60	57	55					55			
9	74	64	58	54	73	64	58	54	63	57	54	62	57	53	61	56	53	52					52			
10	70	60	55	51	69	60	54	50	59	54	50	58	54	50	58	53	50	49					49			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	133395	133395	133395
5°	129725	129846	129963
10°	121073	120715	121436
15°	109769	107919	110629
20°	97383	93965	98016
25°	84030	79042	85213
30°	69528	64030	71179
35°	53024	50117	54038
40°	30755	36039	31688
45°	13633	23558	13968
50°	6477	13142	6477
55°	3528	5397	3528
60°	1188	2144	1188
65°	0	560	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.1	10.5
10°-20°	681.6	25.6
20°-30°	785.8	29.5
30°-40°	605.9	22.7
40°-50°	248.6	9.3
50°-60°	58.6	2.2
60°-70°	4.9	0.2
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1746.5	65.5
0°-40°	2352.3	88.3
0°-60°	2659.5	99.8
0°-90°	2664.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2664.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3098	3098	3098	3098	3098	
5°	3002	3002	3004	3007	3007	279
15°	2463	2443	2421	2446	2482	687
25°	1769	1708	1664	1725	1794	809
35°	1009	959	954	981	1028	614
45°	224	290	387	298	229	197
55°	47	61	72	61	47	43
65°	0	0	6	0	0	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3098.2	3098.2	3098.2	3098.2	3098.2
2.5°	3070.6	3073.4	3073.4	3076.1	3076.1
5°	3001.5	3001.5	3004.3	3007.0	3007.0
7.5°	2899.2	2896.5	2893.7	2899.2	2907.5
10°	2769.3	2761.1	2761.1	2766.6	2777.6
12.5°	2622.9	2609.0	2600.8	2611.8	2636.7
15°	2462.6	2443.2	2421.1	2446.0	2481.9
17.5°	2296.7	2269.1	2235.9	2271.9	2313.3
20°	2125.4	2081.2	2050.8	2089.4	2139.2
22.5°	1943.0	1896.0	1851.8	1909.8	1965.1
25°	1768.8	1708.0	1663.8	1724.6	1793.7
27.5°	1600.3	1520.1	1473.1	1539.4	1616.8
30°	1398.5	1340.5	1287.9	1357.0	1431.7
32.5°	1205.0	1144.2	1119.3	1163.6	1229.9
35°	1008.8	959.0	953.5	981.2	1028.1
37.5°	790.5	787.7	804.3	798.7	807.0
40°	547.2	613.6	641.2	619.1	563.8
42.5°	353.8	431.2	500.3	442.2	373.1
45°	223.9	290.2	386.9	298.5	229.4
47.5°	141.0	187.9	290.2	193.5	143.7
50°	96.7	124.4	196.2	124.4	96.7
52.5°	66.3	85.7	121.6	85.7	69.1
55°	47.0	60.8	71.9	60.8	47.0
57.5°	27.6	38.7	41.5	38.7	30.4
60°	13.8	22.1	24.9	22.1	13.8
62.5°	0.0	8.3	13.8	8.3	0.0
65°	0.0	0.0	5.5	0.0	0.0
67.5°	0.0	0.0	2.8	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)